ELSEVIER

Physiology & Behavior 78 (2003) 819–824

PHYSIOLOGY & BEHAVIOR

# CONTENTS
# VOLUME 78, 2003

*CONTENTS* VOLUME 78 NUMBER 1 2003

**Articles**

**Lactation and weaning effects on physiological and behavioral response to stressors**
SIBOLBORO MEZZACAPPA, E., A.Y. TU AND M.M. MYERS ..... 1

**Energy intake and body composition in anorexia and bulimia nervosa**
SUNDAY, S.R. AND K.A. HALMI ..... 11

**Two effects of high-fat diets on the satiating potency of cholecystokinin-8**
TORREGROSSA, A.-M. AND G.P. SMITH ..... 19

**Effects of endurance training on the gluconeogenic capacity of periportal and perivenous hepatocytes**
BÉLANGER, P., F. DÉSY, M.-S. GAUTHIER, K. COUTURIER AND J.-M. LAVOIE ..... 27

**Self-injurious behavior in male rhesus macaques does not reflect externally directed aggression**
LUTZ, C., L. MARINUS, W. CHASE, J. MEYER AND M. NOVAK ..... 33

**Food availability and photoperiod affect reproductive development and maintenance in the marsh rice rat (*Oryzomys palustris*)**
EDMONDS, K.E., L. RIGGS AND M.H. STETSON ..... 41

**Assessment of sucrose and ethanol reinforcement: The across-session breakpoint procedure**
CZACHOWSKI, C.L., B.H. LEGG AND H.H SAMSON ..... 51

**Hormonal control of grooming behavior in domestic goats**
KAKUMA, Y., Y. TAKEUCHI, Y. MORI AND B.L. HART ..... 61

**Effect of naltrexone on food intake and body weight in Syrian hamsters depends on metabolic status**
JONES, J.E. AND E.S. CORP ..... 67

**Effects of tGLP-1 on feeding behaviour and neurohypophysial function under chronic osmotic stimulation**
BOJANOWSKA, E. AND B. STEMPNIAK ..... 73

**Lambs prevented from suckling their mothers display behavioral, immune and endocrine disturbances**
NAPOLITANO, F., G. ANNICCHIARICO, M. CAROPRESE, G. DE ROSA, L. TAIBI AND A. SEVI ..... 81

**Strain differences in hippocampal EEG are related to strain differences in behaviour in rats**
VAN LIER, H., W.H.I.M. DRINKENBURG AND A.M.L. COENEN ..... 91

**Combined effects of temperature and noise on human discomfort**
PELLERIN, N. AND V. CANDAS ..... 99

**Vigorous intake of oil emulsion caused by chronic food deprivation remains after recovery in rats**
KIMURA, F., Y. ENDO AND K. FUJIMOTO ..... 107

**Air and shock two-way shuttlebox avoidance in C57BL/6J and 129X1/SvJ mice**
CLARK, M.G., S. VASILEVSKY AND T.M. MYERS ..... 117

**Longitudinal study of daily variation of rats' behavior in the elevated plus-maze**
ANDRADE, M.M.M., M.F. TOMÉ, E.S. SANTIAGO, A. LÚCIA-SANTOS AND T.G.C.S. DE ANDRADE ..... 125

**Consolidation and expression of a shock-induced odor preference in rat pups is facilitated by opioids**
ROTH, T.L. AND R.M. SULLIVAN ..... 135

**Meal size, satiety and cholecystokinin in gastrectomized humans**
BERGH, C., S. SJÖSTEDT, G. HELLERS, M. ZANDIAN AND P. SÖDERSTEN ..... 143

doi:10.1016/S0031-9384(03)00133-1

**Expression of biologically active rat apolipoprotein AIV in *Escherichia coli***
LIU, M., N. MAIORANO, L. SHEN, K. PEARSON, D. TAJIMA, D.M. ZHANG, S.C. WOODS, R.J. SEELEY, W.S. DAVIDSON AND P. TSO ..... 149

**Effects of *N*-methyl-D-aspartate-induced amygdala lesion in rats submitted to the elevated T-maze test of anxiety**
STRAUSS, C.V.A., S.S. MAISONNETTE, N.C. COIMBRA AND H. ZANGROSSI JR. ..... 157

**The relation between saliva flow after different stimulations and the perception of flavor and texture attributes in custard desserts**
ENGELEN, L., R.A. DE WIJK, J.F. PRINZ, A. VAN DER BILT AND F. BOSMAN ..... 165

---

CONTENTS VOLUME 78 NUMBER 2

**Articles**

**Conditioned acceptance and preference but not altered taste reactivity responses to bitter and sour flavors paired with intragastric glucose infusion**
MYERS, K.P. AND A. SCLAFANI ..... 173

**Effects of alcohol exposure during development on social behavior in rats**
LUGO JR., J.N., M.D. MARINO, K. CRONISE AND S.J. KELLY ..... 185

**Assessment of the Sniff Magnitude Test as a clinical test of olfactory function**
FRANK, R.A., M.F. DULAY AND R.C. GESTELAND ..... 195

**Photoperiod and stress affect wound healing in Siberian hamsters**
KINSEY, S.G., B.J. PRENDERGAST AND R.J. NELSON ..... 205

**Effects of an odor paired with illness on startle, freezing, and analgesia in rats**
RICHARDSON, R. AND G.P. MCNALLY ..... 213

**Effects of deprivation on hedonics and reinforcing value of food**
EPSTEIN, L.H., R. TRUESDALE, A. WOJCIK, R.A. PALUCH AND H.A. RAYNOR ..... 221

**Effect of the serotonin agonist buspirone on behaviour and hypothalamic–pituitary–adrenal axis in confident and fearful mink**
MALMKVIST, J., S.W. HANSEN AND B.M. DAMGAARD ..... 229

**Sleep and EEG patterns in the chronic constriction injury model of neuropathic pain**
KONTINEN, V.K., A. AHNAOU, W.H.I.M. DRINKENBURG AND T.F. MEERT ..... 241

**Effects of fat content on fat hedonics: Cognition or taste?**
BOWEN, D., P. GREEN, N. VIZENOR, C. VU, P. KREUTER AND B. ROLLS ..... 247

**Cocaine-induced genital reflexes during paradoxical sleep deprivation and recovery**
ANDERSEN, M.L., M. BIGNOTTO AND S. TUFIK ..... 255

**A sedentary day: effects on subsequent sleep and body temperatures in trained athletes**
HAGUE, J.F.E., S.S. GILBERT, H.J. BURGESS, S.A. FERGUSON AND D. DAWSON ..... 261

**Testosterone, territoriality, and the 'home advantage'**
NEAVE, N. AND S. WOLFSON ..... 269

**Exogenous adrenocorticotrophic hormone does not elicit a salt appetite in growing pigs**
JANKEVICIUS, M.L. AND T.M. WIDOWSKI ..... 277

**Selective effects of vagal deafferentation and celiac–superior mesenteric ganglionectomy on the reinforcing and satiating action of intestinal nutrients**
SCLAFANI, A., K. ACKROFF AND G.J. SCHWARTZ ..... 285

**Effect of repeated administration of dexfenfluramine on feeding and brain Fos in mice**
ROWLAND, N.E., K. ROBERTSON AND D.J. GREEN ..... 295

**Stress-induced impairment of inhibitory avoidance learning in female neuromedin B receptor-deficient mice**
YAMADA, K., Y. SANTO-YAMADA AND K. WADA ..... 303

**A high-protein diet enhances satiety without conditioned taste aversion in the rat**
BENSAÏD, A., D. TOMÉ, D. L'HEUREUX-BOURDON, P. EVEN, D. GIETZEN, C. MORENS, C. GAUDICHON, C. LARUE-ACHAGIOTIS AND G. FROMENTIN ..... 311

**Successful acquisition of an olfactory discrimination paradigm by spider monkeys, *Ateles geoffroyi***
LASKA, M., L.T.H. SALAZAR AND E.R. LUNA ..... 321

**Central insulin potentiates eating elicited by 2-deoxy-D-glucose**
CLEGG, D.J., G.L. EDWARDS AND R.J. MARTIN ..... 331

**Temporal pattern of social aggregation in tadpoles and its influence on the measurement of lateralised response to social stimuli**
DADDA, M., V.A. SOVRANO AND A. BISAZZA ..... 337

---

CONTENTS VOLUME 78 NUMBER 3

**Articles**

**Effect of cold acclimation and repeated swimming on opioid and nonopioid swim stress-induced analgesia in selectively bred mice**
ŁAPO, I.B., M. KONARZEWSKI AND B. SADOWSKI ..... 345

**Temporal variability of preferred lighting conditions self-selected by women**
MORITA, T., Y. HIRANO AND H. TOKURA ..... 351

**Salicylate as a partial inhibitor of emotional fever and body weight set-point in rats: Behavioral and neuroendocrine study**
MICHEL, C., P. FRANKHAM AND M. CABANAC ..... 357

**Negative feedback functions in chronically stressed rats: Role of the posterior paraventricular thalamus**
JAFERI, A., N. NOWAK AND S. BHATNAGAR ..... 365

**Effects of gestational stress and neonatal handling on pain, analgesia, and stress behavior of adult mice**
STERNBERG, W.F. AND C.G. RIDGWAY ..... 375

**Gender influence on emotional responses to primary tastes**
ROBIN, O., S. ROUSMANS, A. DITTMAR AND E. VERNET-MAURY ..... 385

**No association of sleep with total daily physical activity in normal sleepers**
YOUNGSTEDT, S.D., M.L. PERLIS, P.M. O'BRIEN, C.R. PALMER, M.T. SMITH, H.J. ORFF AND D.F. KRIPKE ..... 395

**Calcium taste preference and sensitivity in humans: I. Gender comparisons**
LESHEM, M., T. KATZ-LEVIN AND J. SCHULKIN ..... 403

**Calcium taste preference and sensitivity in humans: II. Hemodialysis patients**
LESHEM, M., J. RUDOY AND J. SCHULKIN ..... 409

**Differential changes in taste perception induced by benzoic acid prickling**
OTERO-LOSADA, M.E. ..... 415

**Rapid learning of sequential tool use by macaque monkeys**
HIHARA, S., S. OBAYASHI, M. TANAKA AND A. IRIKI ..... 427

**Sleep characteristics in the turkey *Meleagris gallopav***
AYALA-GUERRERO, F., G. MEXICANO AND J.I. RAMOS ..... 435

**Adaptive timing of digestion and digestion-related thermogenesis in the pigeon**
LAURILA, M., E. HOHTOLA, S. SAARELA AND M.E. RASHOTTE ..... 441

**Furosemide, sodium appetite, and ingestive behavior**
LUNDY JR., R.F., M. BLAIR, N. HORVATH AND R. NORGREN. ..... 449

**Repeated fasting/refeeding elevates plasma leptin without increasing fat mass in rats**
KIM, Y.-W. AND P.J. SCARPACE ..... 459

**Effects of valproate, phenytoin, and zonisamide on clonic and tonic seizures induced by acute and repeated exposure of mice to flurothyl**
HASHIMOTO, Y., H. ARAKI, K. FUTAGAMI, H. KAWASAKI AND Y. GOMITA ..... 465

**5-HT mechanisms of median raphe nucleus in the conditioned freezing caused by light/foot-shock association**
AVANZI, V., R.C.B. SILVA, C.E. MACEDO AND M.L. BRANDÃO ..... 471

**Individual behavioural characteristics in pigs—influences of group composition but no differences in cortisol responses**
VAN ERP-VAN DER KOOIJ, E., A.H. KUIJPERS, F.J.C.M. VAN EERDENBURG, S.J. DIELEMAN, D.M. BLANKENSTEIN AND M.J.M. TIELEN ..... 479

**Corticosterone response in the chick separation–stress paradigm**
FELTENSTEIN, M.W., L.C. LAMBDIN, H.E. WEBB, J.E. WARNICK, S.I. KHAN, I.A. KHAN, E.O. ACEVEDO AND K.J. SUFKA ..... 489

**Coping strategies in male and female rats exposed to multiple stressors**
CAMPBELL, T., S. LIN, C. DEVRIES AND K. LAMBERT ..... 495

**Endocrine and lymphoproliferative response changes produced by social stress in mice**
CACHO, R., E. FANO, P. ARESO, L. GARMENDIA, O. VEGAS, P.F. BRAIN AND A. AZPÍROZ ..... 505

**Book review**

**Tree of Origin: Edited by Frans B.M. de Waal, Harvard University Press, 2001, 310 pp., ISBN: 0-674-01004-3, Hardcover edition, $29.95, Paperback edition, $17.95**
BARASH, D.P. ..... 513

---



**Brief communication**

**Decreased hypothalamic concentration of neuropeptide Y correlates with onset of hyperphagia in *fa/fa* rats on postnatal day 12**
STER, A.M., T.J. KOWALSKI, M.G. DUBE, S.P. KALRA AND G.P. SMITH ..... 517

**Articles**

**Modulation by sudden darkness of apomorphine-induced behavioral responses**
NASELLO, A.G., A.S. SASSATANI, F.S. FERREIRA, L.F. FELICIO AND C.A. TIEPPO ..... 521

**Effects of glucose on responsiveness to change in young adult and middle-aged rats**
HUGHES, R.N. ..... 529

**Changes in peripheral energy metabolism during audiogenic seizures in rats**
BOTION, L.M. AND M.C. DORETTO ..... 535

**Leptin resistance in mice is determined by gender and duration of exposure to high-fat diet**
HARRIS, R.B.S., H.M. BOWEN AND T.D. MITCHELL ..... 543

**Physiological mechanisms mediating aspartame-induced satiety**
HALL, W.L., D.J. MILLWARD, P.J. ROGERS AND L.M. MORGAN ..... 557

**Excessive weight gains in female rats with transections of the stria terminalis**
KING, B.M., B.L. ROLLINS, S.J. GRUNDMANN AND L.G. OLIVIER ..... 563

**Water maze performance and changes in serum corticosterone levels in zinc-deprived and pair-fed rats**
CHU, Y., M.F. MOUAT, R.B.S. HARRIS, J.A. COFFIELD AND A. GRIDER ..... 569

**Role of gustation in the recognition of oleate and triolein in anosmic rats**
FUKUWATARI, T., K. SHIBATA, K. IGUCHI, T. SAEKI, A. IWATA, K. TANI, E. SUGIMOTO AND T. FUSHIKI ..... 579

**Differential anxiolytic effect of enalapril and losartan in normotensive and renal hypertensive rats**
SRINIVASAN, J., B. SURESH AND M. RAMANATHAN ..... 585

**Sensory-specific satiety is affected more by volume than by energy content of a liquid food**
BELL, E.A., L.S. ROE AND B.J. ROLLS ..... 593

**Postoperative haptic training facilitates the retrieval of visual-based memories after visual cortex lesions in rats**
CARTFORD, M.C., A.J. BEAVER, K.A. WAGNER AND E.R. DELAY ..... 601

**The interaction of bombesin and corticotropin-releasing hormone on ingestive behavior in the domestic fowl**
MEADE, S. AND D.M. DENBOW ..... 611

**Cardiovascular and metabolic responses to fasting and thermoneutrality in $A^y$ mice**
WILLIAMS, T.D., J.B. CHAMBERS, S.P. GAGNON, L.M. ROBERTS, R.P. HENDERSON AND J.M. OVERTON ..... 615

**A paper screening test to assess genetic taste sensitivity to 6-*n*-propylthiouracil**
ZHAO, L., S.V. KIRKMEYER AND B.J. TEPPER ..... 625

**Behavioral effects of static high magnetic fields on unrestrained and restrained mice**
LOCKWOOD, D.R., B. KWON, J.C. SMITH AND T.A. HOUPT ..... 635

**Compulsive behavior in the 5-$HT_{2C}$ receptor knockout mouse**
CHOU-GREEN, J.M., T.D. HOLSCHER, M.F. DALLMAN AND S.F. AKANA ..... 641

**LPS fever in old rats depends on the ambient temperature**
PELOSO, E.D., M. FLOREZ-DUQUET, J.B. BUCHANAN AND E. SATINOFF ..... 651

**Fasting-induced increases in food hoarding are dependent on the foraging-effort level**
DAY, D.E. AND T.J. BARTNESS ..... 655

**Simmondsin: Effects on meal patterns and choice behavior in rats**
LIEVENS, S., G. FLO, E. DECUYPERE, M. VAN BOVEN AND M. COKELAERE ..... 669

**Lipopolysaccharide induces biochemical alterations in chicks trained on the passive avoidance learning task**
SELL, K.M., S.F. CROWE AND S. KENT ..... 679

**Salt intake by normotensive and spontaneously hypertensive rats: Two-bottle and lick rate analyses**
FLYNN, F.W., B. CULVER AND S.V. NEWTON ..... 689

**Anogenital distance measured at weaning is correlated with measures of blood chemistry and behaviors in**
KERIN, T.K., G.P. VOGLER, D.A. BLIZARD, J.T. STOUT, G.E. McCLEARN AND D.J. VANDENBERGH ..... 697

**Behavioral and cardiovascular changes in the chronic mild stress model of depression**
GRIPPO, A.J., T.G. BELTZ AND A.K. JOHNSON ..... 703

**Forebrain sites of NPY action on estrous behavior in Syrian hamsters**
KEENE, A.C., J.E. JONES, G.N. WADE AND E.S. CORP ..... 711

**Social regulation of reproduction in the female mound-builder mouse (*Mus spicilegus*)**
FÉRON, C. AND G. GHEUSI ..... 717

**Fearfulness and sex in F2 Roman rats: Males display more fear though both sexes share the same fearfulness traits**
AGUILAR, R., L. GIL, J.A. GRAY, P. DRISCOLL, J. FLINT, G.R. DAWSON, L. GIMÉNEZ-LLORT, R.M. ESCORIHUELA, A. FERNÁNDEZ-TERUEL AND A. TOBEÑA ..... 723

**c-Fos expression in supramammillary and medial mammillary nuclei following spatial reference and working memory tasks**
SANTÍN, L.J., J.A. AGUIRRE, S. RUBIO, A. BEGEGA, R. MIRANDA AND J.L. ARIAS ..... 733

**Electromyographic activity of the lip muscle as a measure of puffing on a cigarette**
MUELLER, V., R.F. MUCHA AND P. PAULI ..... 741

**A dopamine D2 receptor gene polymorphism and physical activity in two family studies**
SIMONEN, R.L., T. RANKINEN, L. PÉRUSSE, A.S. LEON, J.S. SKINNER, J.H. WILMORE, D.C. RAO AND C. BOUCHARD ..... 751

**Dietary fish oil does not protect rats exposed to restraint or sleep deprivation stress**
PAPAKONSTANTINOU, E., D.H. RYAN AND R.B.S. HARRIS ..... 759

**Fasting plasma triglyceride levels and fat oxidation predict dietary obesity in rats**
JI, H. AND M.I. FRIEDMAN ..... 767

**Parameters for quantification of hunger in broiler breeders**
DE JONG, I.C., A. SANDER VAN VOORST AND H.J. BLOKHUIS ..... 773

**Task solving by procedural strategies in the Morris water maze**
BALDI, E., C.A. LORENZINI AND C. BUCHERELLI ..... 785

**Macronutrient selection through postingestive signals in sea bass fed on gelatine capsules**
RUBIO, V.C., F.J. SÁNCHEZ-VÁZQUEZ AND J.A. MADRID ..... 795

**A comparison of the effects of added saliva, α-amylase and water on texture perception in semisolids**
ENGELEN, L., R.A. DE WIJK, J.F. PRINZ, A.M. JANSSEN, A. VAN DER BILT, H. WEENEN AND F. BOSMAN ..... 805

**Letter to the Editor**

**The surrogate nipple technique in the rat provides a useful animal model of suckling in bottle-feeding circumstances: Reply to Blass (2002)**
PETROV, E.S., E.I. VARLINSKAYA AND N.E. SPEAR ..... 813

**Contents of Volume 78** ..... 819

**Author Index of Volume 78** ..... 825

**Keyword Index of Volume 78** ..... 827